RFID WALL READER
BM680
miniGuard

Product Overview

The miniGuard reader is stylish and functional. The slim, low-profile form allow for easy installation on door architraves or mullions where larger readers will not fit. In addition, the BM680 can also be mounted directly on a metal door frame with no adverse effect on the reader's function. It is available in a range of secure options right up to military grade technology and encryption and provides a flexible solution through customisation to suit all access control requirements. This compact form-factor MIFARE smart card reader can be purchased pre-configured or customised and will integrate seamlessly with existing systems to facilitate upgrading to higher security technology.

Why BQT Solutions

BQT Solutions is a specialist in the development, manufacture and supply of high quality, high security card and biometric readers, electromechanical locks and related electronic security products. Providing high security solutions to verticals such as Airports, Hospitals, Prisons and Government for over 35 years.

Innovating today for a more secure tomorrow

Product Benefits

Benefit One

Its compact design offers a discrete small reader whilst maintaining the robust form factor integrity that BQT Solutions readers are known for. Taking up less room than most, the miniGuard can mount onto doorframes and walls where others cannot fit.

Benefit Two

Offering pre-configured and customised operations, the BM680 can be set up to accept your custom key and data formats and is designed to work with your pre-existing security configurations.

Benefit Three

The miniGuard offers installation flexibility and integration with many existing access panels and can be customised to suit a proprietary system. When you receive your reader, all you will have to do is connect them in to secure your site with your existing access control system.

PRODUCT FEATURES

Compatibility

Available with MIFARE Classic and DESFire proximity cards for contactless smart card technology. The BQT Solution's suite of MIFARE Classic & DESFire readers and smart cards, opens the gateway to multiple security applications, including access control, biometric authentication, IT security, e-purse, e-vending, time, and attendance to ensure your security needs are being met.

Robust Design

Its compact casing offers a robust exterior designed to withstand tampering and maintain integrity during a security threat or incident. Built to withstand common reader threats, including excessive force from a hammer or heavy tool, the BM680 will continue to operate and secure access control even after being damaged.

Low Power

The BM680 uses power when needed but goes into a standby mode when not in use. Low power paired with high-security access control makes the miniGuard reader a preferred product choice for many industry leaders by offering an eco-friendly and economical, yet secure solution.

Tamper Monitor

Security threats aren't always captured on camera and pose a real risk to unauthorised access. We know the peace of mind many organisations need when it comes to alerting them to security threats and the miniGuard offers a tamper monitor that will alert the security team if there has been a breach attempt at one of the readers.

Secure Encryption

Working with your current system, the miniGaurd offers flexible access control, with the option to use Wiegand, OSDP or Encrypted RS485 access data output. The BM680 additional benefits of being cost-effective and easy to wire and deploy across your sites where different levels of encryption are needed for secure access control.

PRODUCT APPLICATIONS

The miniGaurd is ideal in spaces where a discrete solution for high usage contactless access control is desired. Ideal for corporate, airports, and education, the miniGuard is available in several technology levels for all security requirements, large or small volumes needs and budget conscious applications.
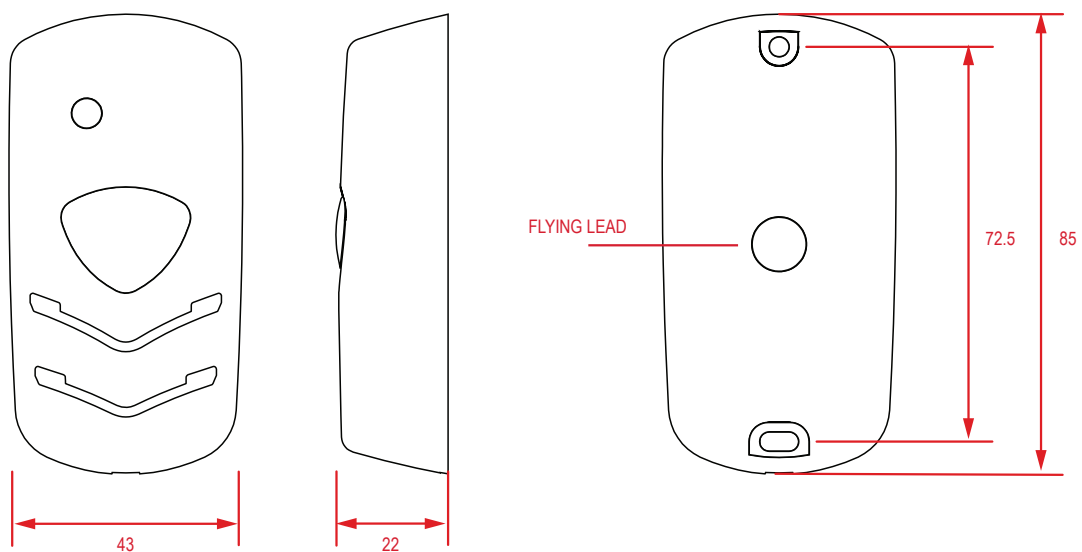
SPECIFICATIONS

- **Voltage at Reader**
  8VDC to 16VDC

- **Current Usage**
  Average: 60mA
  Peak: 160mA

- **Card Read Range**
  20mm to 40mm (0.8" to 1.6")

- **Operating Temperature**
  -25°C to +65°C (-13°F to +149°F)

- **Relative Humidity (% max)**
  90%, operating non condensing

- **Reader Dimensions**
  85mm (3.35") X 43mm (1.69") X 22mm (0.87")

- **Materials**
  Reader / Shroud Body: ABS Plastic
  Colour Finish: Charcoal

- **Feedback**
  Green/Red/Blue LED, with external control
  Buzzer, with external control
  Tamper detection, optional output

- **Credential Options**
  ISO14443A, MIFARE Classic® 1K/4K, MIFARE Plus® X 2K/4K, MIFARE® DESFire® EV1 4K/8K, MIFARE® DESFire® EV2 4K/8K, MIFARE® DESFire® EV3 4K/8K

- **Compliance and Certification**
  FCC, CE, UKCA, RCM, RoHS, IP65

- **Reader Variants**
  BM681 – CSN Reader
  BM682 – miPASS2 Reader
  BM683 – Custom MIFARE Classic Reader
  BM684 – miPASS3 Reader
  BM685 – miPASS4 Reader
  BM686 – Custom MIFARE DESFire Reader

- **Accessories**
  B4012G000000 – BM680 Tamper Plate
  B4106G000000 – BM680 Replacement Shroud

DIAGRAM - BM860

Diagrams are not to scale. Measurements are in millimeters (mm).

FLYING LEAD

43

22

72.5

85

MODEL COMPARISON

NAME	APPLICATION	OUTPUT PROTOCOLS	OPERATING TEMPERATURE	READER DIMENSIONS	POWER USAGE
BM680	Sites that are cost sensitive yet still require high security	Wiegand, OSDP, RS485	-25°C to +65°C (-13°F to +149°F)	85mm X 43mm X 22mm (3.35" X 1.69 X 0.87")	8VDC to 16VDC, 60mA (Average), 160mA (Peak)
BT930	Existing sites looking to upgrade the technology within the same architrave footprint	Wiegand, OSDP, RS485	-25°C to +65°C (-13°F to +149°F)	140mm X 47mm X 24mm (5.51"1. X 85" X 0.94"	8VDC to 16VDC, 60mA (Average), 160mA (Peak)
BT950	Installations that require a robust standard form architrave reader	Wiegand, OSDP, RS485	-25°C to +65°C (-13°F to +149°F)	119mm X 43mm X 23mm (4.69" X 1.69" X 0.91")	8VDC to 16VDC, 80mA (Average), 160mA (Peak)
BT951	Any site wanting to migrate from 125KHz (FSK) to MIFARE security	Wiegand, OSDP, RS485	-25°C to +65°C (-13°F to +149°F)	119mm X 43mm X 23mm (4.69" X 1.69" X 0.91")	8VDC to 16VDC, 120mA (Average), 300mA (Peak)
BT953	Any site wanting to migrate from 125KHz (PSK) to MIFARE security	Wiegand, OSDP, RS485	-25°C to +65°C (-13°F to +149°F)	119mm X 43mm X 23mm (0.91" X 4.69"X1.69")	8VDC to 16VDC, 120mA (Average), 300mA (Peak)
BT815	Sites needing a standard form gang box reader	Wiegand, OSDP, RS485	-25°C to +65°C (-13°F to +149°F)	90mm X 90mm X 20mm (3.54" X 3.54" X0.79")	8VDC to 16VDC, 60mA (Average), 160mA (Peak)
BT817	Sites requiring dual factor authentication or cardless access	Wiegand, OSDP, RS486	-25°C to +65°C (-13°F to +149°F)	90mm X 90mm X 28mm (3.54" X 3.54" X1.10")	8VDC to 16VDC, 90mA (Average), 190mA (Peak)
BT853	Sites requiring dual factor authentication or cardless access and on device feedback	Wiegand, OSDP, RS487	-25°C to +65°C (-13°F to +149°F)	157mm X 97mm X 50mm 6.18" X 3.82" X 1.97"	8VDC to 16VDC, 90mA (Average), 190mA (Peak)
BT51X	Installations requiring a discrete yet secure device, ideal for Hospitals and Prisons	Wiegand, OSDP, RS488	-25°C to +65°C (-13°F to +149°F)	Variable, to suit	8VDC to 16VDC, 180mA (Average), 240mA (Peak)

WARRANTY

Unless specified otherwise, the Company warrants to the Customer that' BQT Solutions Branded Products' (excluding third party products and software) are covered by a return to base warranty on defects in materials and workmanship affecting normal use for a period of the Warranty offered under the Standard Terms and Conditions of Sale from BQT invoice date ('Standard Warranty')

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